
Subject: Re: Access to clusters properties

Posted by [Ronald Kunne](#) on Tue, 10 May 2011 11:05:07 GMT

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Hi Dima,

Thanks for the info. I looked through your collection of macros and found an easy solution there. I got 1) to work as I described above with the following for the "hypothetical loop":

```
    Int_t ndigi= digi_array->GetEntriesFast();
    Double_t digiEsum=0;
    for (Int_t i=0; i<ndigi; i++) {
        PndEmcDigi *digi=(PndEmcDigi*)digi_array->At(i);
        Double_t digi_energy=digi->GetEnergy();
        digiEsum+=digi_energy;
    }
```

After the loop the sum over the digi energies is equal to the cluster energy as it should. I found this method in your /macro/emc/dedicated/digi_analys.C

2) does work indeed for

```
    PndEmcClusterEnergySums esum(*cl, digi_array);
```

(which is the example in your reco_analys.C).

But when using instead

```
    PndEmcXCIMoments mom(*cl, digi_array);
```

I get the error message: "gGeoManager does not exist" with root ending without a crash.

But with access to the digis I can calculate my own moments anyway.

Greetings,
Ronald Kunne
